

Naval Weapons Station Yorktown Restoration Advisory Board Meeting November 19, 2003

Charles E. Brown Park Community Building
Old Williamsburg Road

11/19/03-01385

AGENDA

INSTALLATION RESTORATION ADVISORY BOARD (RAB)

NAVAL WEAPONS STATION YORKTOWN

CHARLES E. BROWN PARK COMMUNITY BUILDING

OLD WILLIAMSBURG ROAD (Route 238)

Wednesday, 19 November 2003, 6:30 PM

WELCOME/INTRODUCTION	Jim Kemp Public Affairs Officer
NAVY CO-CHAIR	Captain Phillip G. Beierl Commanding Officer
COMMUNITY REMARKS	Jay Dewing Community Co-Chair
FY 2003 Accomplishments & FY 2004 Goals	Channing Blackwell (10 minutes)
CAX NFRAP Sites	Channing Blackwell (10 minutes)
Site 21 & 22 RODs Update	Channing Blackwell (10 minutes)
WPNSTA Sites 4 & 6 Update (RAC)	Bill Hughes (Shaw I&E) (15 minutes)
Break	(15 minutes)
WPNSTA Site 23 Removal Action	Channing Blackwell (5 minutes)
CAX Site 7 Site Condition Update	Channing Blackwell (5 minutes)
CAX Site 1 Status	Don Joiner (Baker) (20 minutes)
FINAL COMMENTS/CLOSING REMARKS/ADJOURN	Jim Kemp

COMMENTS/ANNOUNCEMENT OF FUTURE MEETINGS:

RAB MEETINGS: Wednesday, February 18, 2004, 6:30 PM



WPNSTA/CAX FY 2003 Accomplishments & FY 2004 Goals

Restoration Advisory Board Meeting
Naval Weapons Station Yorktown
19 November 2003

Mr. Channing Blackwell, Presenter
CNRMA Installation Restoration Manager



WPNSTA/CAX

2003 Update of Accomplishments

● WPNSTA

- Site 21 – ROD signed September 30, 2003
- Site 22 – ROD signed September 30, 2003
- Site 4 – Residential Action goals for soils met
 - Removal of soil stock pile funded
- Sites 2, 8, 18, SSA 14 – Draft RI submitted
- Site 6 – Continued Bioremediation of Soil
- Site 23 – Significant soil removal action completed using RAC contract

● CAX

- Site 1 – NTCRA initiated and 95% of soil clean to residential levels
 - Lens of landfill soil exposed by Isabel and sediment to be evaluated in FY04
- NFRAP Decision Document signed for Sites 2, 3, 5, 6, 8, and 10
- Final Background Study Report



WPNSTA 2004 Goals

- ◆ **NFA Final ROD**
 - Site 18 (B-476 Discharge Area)
 - Site 4 (Burn Pad Residue Landfill)
- ◆ **Draft RODs**
 - Site 2 (Turkey Road Landfill)
 - Sites 8 (NEDED Explosives-Contaminated Wastewater Discharge)
 - SSA-14 (B-537 Discharge to Felgates Creek)



WPNSTA 2004 Goals

- ◆ **Draft RI Work Plan**
 - Open Burn - Open Detonation Range
 - Groundwater OU 1 (Sites 1, 3, 6, 7, 11, 17, 24, 25)
- ◆ **Draft RI with SERA**
 - Site 27 (B-1751 Chem. Lab. Neutralization Unit & Drainage Area)
 - Site 28 (B-28 X-Ray Facility Tank Drain Field)
 - Site 29 (Lee Pond)
 - Site 30 (Bracken Road Incinerator and Environs)
- ◆ **Draft BERA**
 - Site 28 (B-28 X-Ray Facility Tank Drain Field)
 - Site 29 (Lee Pond)



WPNSTA 2004 Goals

● Removal Actions

- Site 23 (B-428 Teague Road Disposal Area)
 - Removal of remaining soil using small business contract
 - Initiate Removal Action for sediments
- Site 4 (Burn Pad Residue Landfill)
 - Remove soil stock pile and restore site using Natural Resources guidelines and guidance



WPNSTA 2004 Goals

- Final SSP Report (SSAs 3 through 24)
- Site 12 (Barracks Road Landfill) Draft LTM Report
- Yorktown EGIS - Basic Mapping Coverage
- Update Master Project Plan
- FY 05-06 WPNSTA/CAX SMP



CAX 2004 Goals

- Site 7 (Old Dupont Disposal Area)
 - Time Critical Removal Action (TCRA)
 - Shoreline stabilization is required due to Hurricane Isabel
- SI Field Supplemental Final Report
 - Site 12 (Disposal Site near Water Tower)
- Round II RI BERA Work Plan
 - Site 1 (Landfill Near Incinerator)
- Final RI
 - Site 11 (The Bone Yard)



CAX 2004 Goals

- Team Site Visits
 - Site 4 (Outdated Medical Supplies Disposal Area)
 - Site 7 (Old DuPont Disposal Area)
 - Site 9 (Transformer Storage Area-include Youth Pond)
 - Site 17 (Penniman AOC)
 - AOC 2 (Dextrose Dump 7)



CAX 2004 Goals

- Final FFA
- Draft EGIS Update Annual Update



No Further Response Action Planned Decision Document

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Mr. Channing Blackwell, Presenter
CNRMA Installation Restoration Manager



What is a “No Further Response Action Planned” Decision Document?

- No Further Response Action Planned (NFRAP)
 - The term designates sites that do not warrant further action in the site evaluation process.
 - Primary criterion is a determination that the site does not pose a significant threat to public health or the environment.



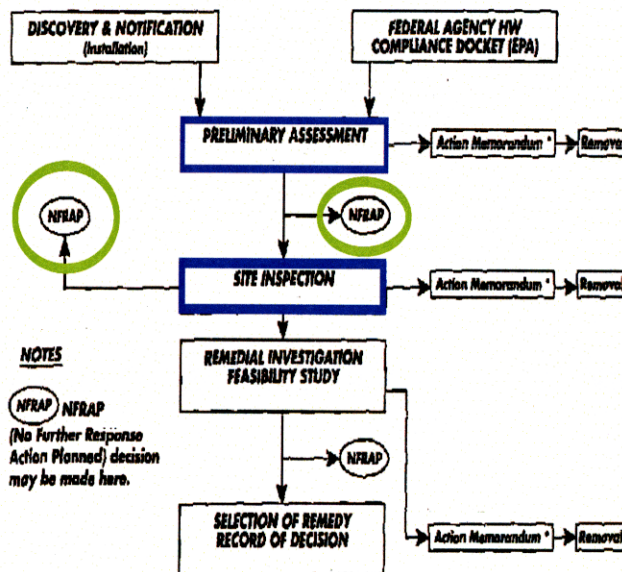
What is a “No Further Response Action Planned” Decision?

- ✦ An installation can make a NFRAP decision at several points in the IR process, but must document the reasons for the decisions.



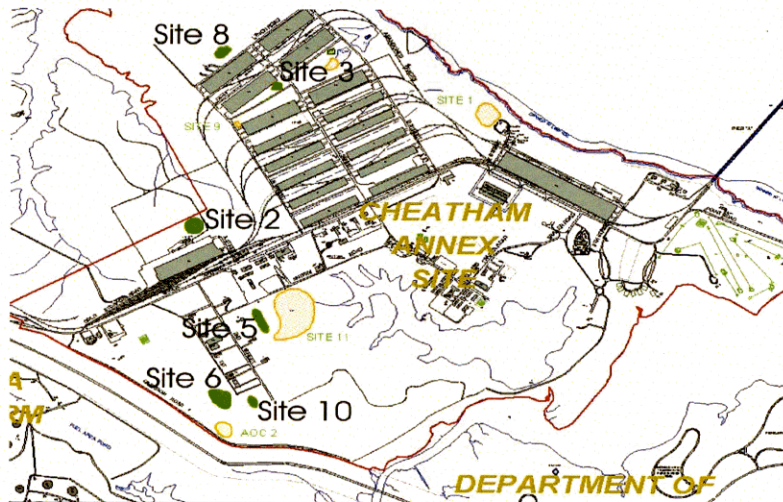
Where
does a
NFRAP fit
within the
CERCLA
process?

CERCLA PROCESS



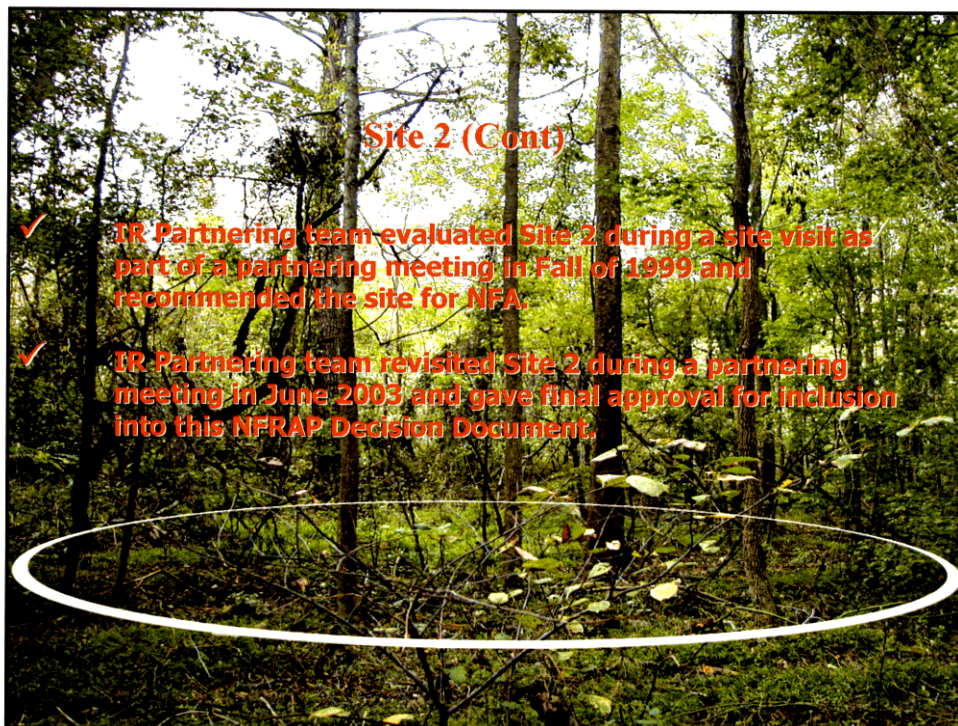
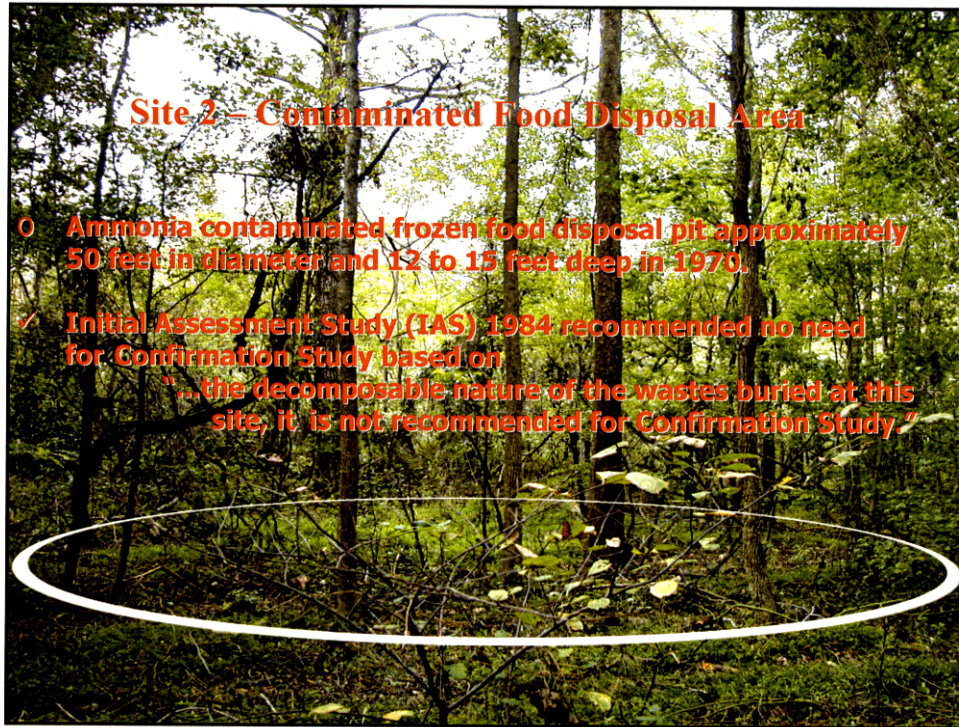


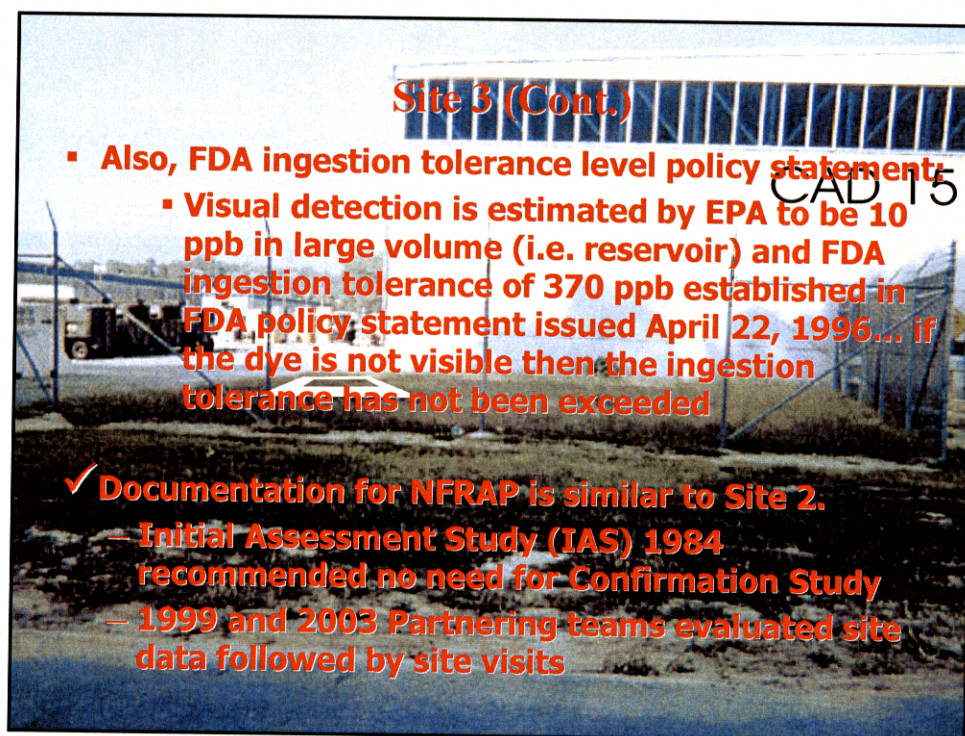
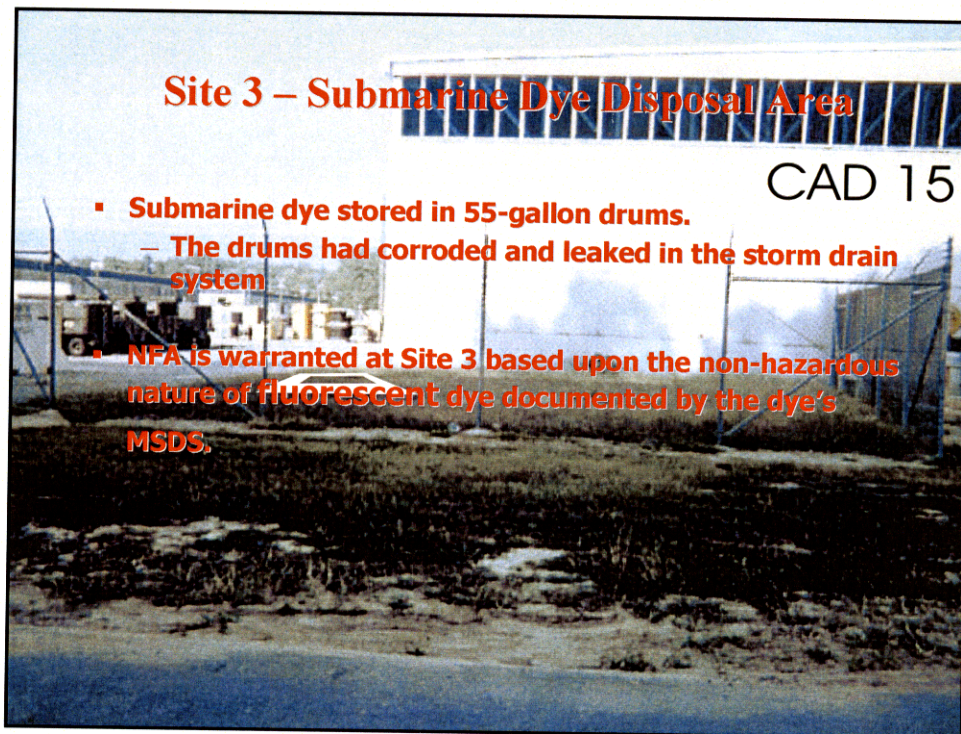
Site Location Map

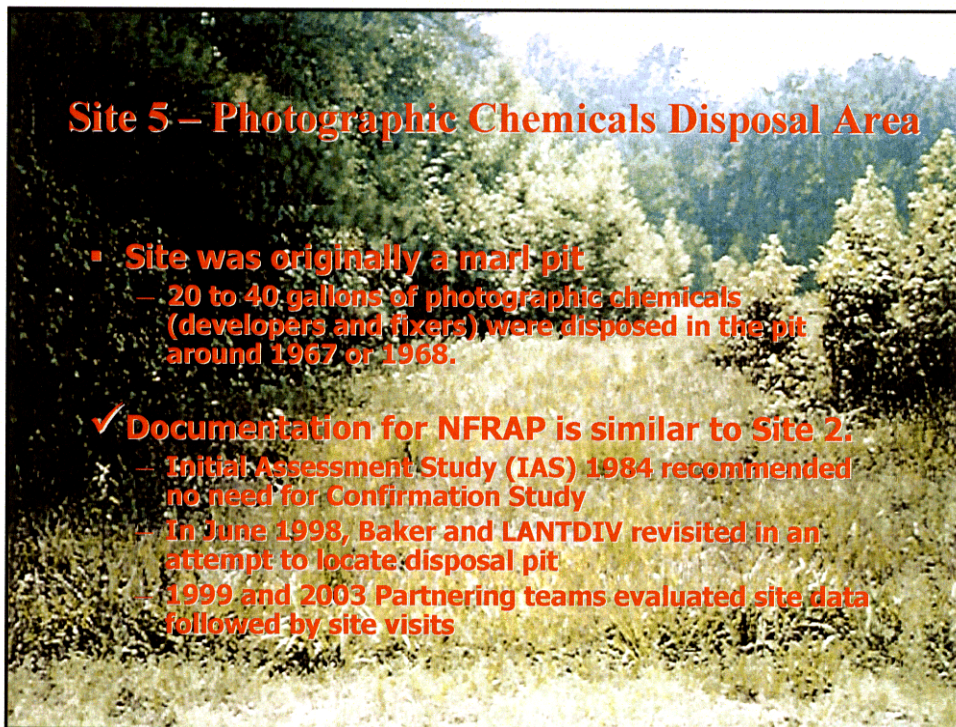


Site Information

- ✦ Site 2 – Contaminated Food Disposal Area,
Behind CAD Building 40
- ✦ Site 3 – Submarine Dye Disposal Area,
Northeast corner of CAD Building 15
- ✦ Site 5 – Photographic Chemicals Disposal Area,
Southeast of the old Dupont Penniman Shell Loading
Facility near Second Street
- ✦ Site 6 – Spoiled Food Disposal Area,
West of the Old Dupont Penniman Shell Loading
Facility near Second Street
- ✦ Site 8 – Landfill,
North of CAD Building 14
- ✦ Site 10 – Decontamination Agent Disposal Area,
Near First Street in the southernmost part of the old
Dupont Penniman Shell Loading Facility











Progress and Benefits

- NFRAP Decision Document represents a closeout of 33% of Cheatham Annex sites
- Early closeout of sites frees up \$950,000 of planned Navy IR dollars
- Returns land back to the Navy without Land Use Controls



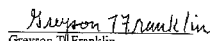
NFRAP Documentation: Document NFA Decision

1.5 Statutory Determination

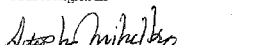
The selected no further action remedy protects human health and the environment and is cost effective. The selected remedy is a permanent solution as the wastes disposed of at the sites do not pose a significant threat to human health or the environment. In addition, the sites will not be subject to a five-year review (NCP 300.430(f)(4)(ii)).


Jeffrey C. Harlow
NAVFAC, LANTDIV

Date: 8/14/03


Greyson T. Franklin
USEPA Region III

Date: 8/14/03


Stephen A. Mihelko
Virginia Department of Environmental Quality

Date: 8-14-03


William C. Blackwell
CNRMA

Date: 8/14/03



Yorktown Sites 21 & 22 RODs Project Update

Restoration Advisory Board Meeting
Naval Weapons Station Yorktown
19 November 2003

Mr. Channing Blackwell, Presenter
CNRMA Installation Restoration Manager



Presentation Overview

- Review ROD history
- Present overview of NFA ROD



Site 21



Site 22





ROD History

- June 2001 – Draft ROD for Site 21 submitted
- Aug 2002 – Revised Draft ROD for Site 21 submitted
- Dec 2002 – Received USEPA comments on Site 21 ROD
- Dec 2002 – Yorktown Partnering Team Consensus to rewrite as separate No Further Action (NFA) RODs with no institutional controls because both sites were remediated to residential levels
- June-July 2003 – Revised Draft NFA RODs submitted
- August 2003 – Draft Final NFA RODs submitted
- September 2003 – Final NFA RODs signed



NFA RODs

- Summary of site risks
 - No human health risks
 - Risks to terrestrial receptors exposed to surface soil were remediated during the removal actions in 2002
- No Further Action RODs for soils since there are no site risks at either site
- Groundwater to be addressed separately on an installation-wide basis



Update Sites 4 & 6

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Mr. William Hughes, Presenter
Shaw Environmental, Inc.
Project Manager



Site 4

- Removal Action complete
- Approximately 26,000 yd³ waste stockpiled on site.
- Anticipated completion (site restoration) is Spring 2004
- The site will be cleaned to residential levels and there will be no Land Use Controls.



Site 4 - Waste Types Encountered

- ✦ Ash
- ✦ Concrete & Building Debris
- ✦ Hazardous Waste (batteries)
- ✦ Unexploded Ordnance (UXO)
- ✦ Compressed Gas Cylinders
- ✦ Household Waste



Site 4 Waste

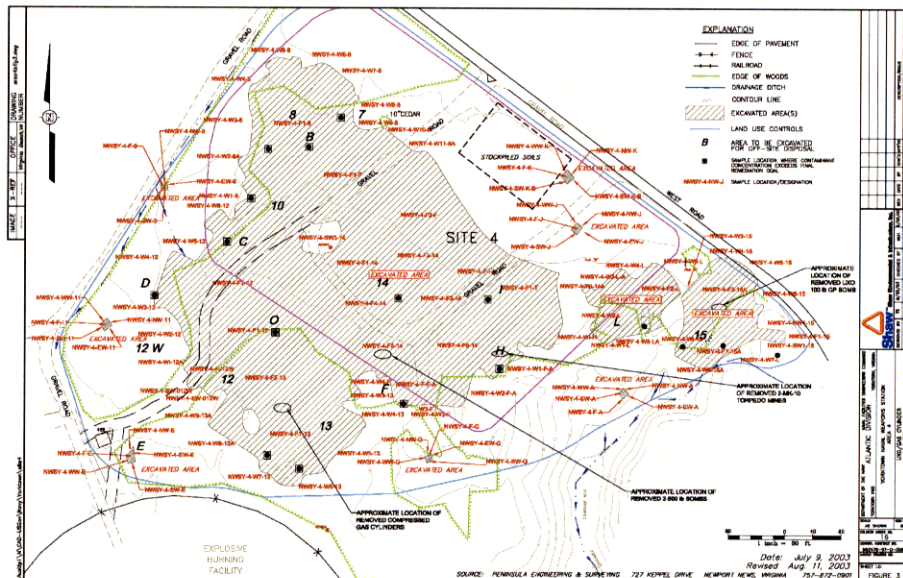
100 lb GP Bomb

Ash

Debris



Site 4 – Excavated & Graded





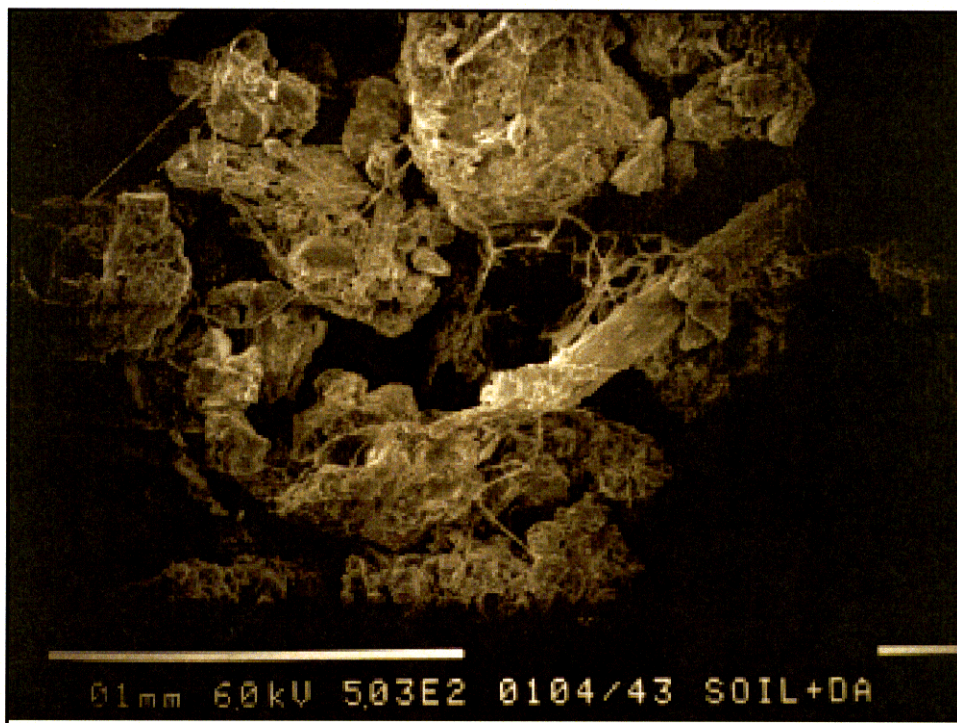
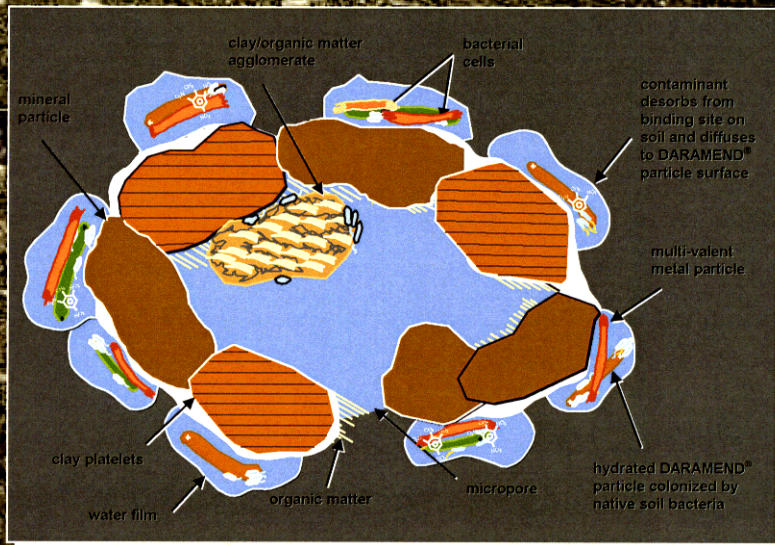
Site 4 - Present



Site 6 - Background

- Plant 3 Discharge Area
- Loaded ordinance with TNT and other explosives
- Soils contain HMX, RDX and chlorinated volatile compounds
- In 1997 W.R. Grace conducted bench-scale treatability tests using Daramend®
- Daramend® treated explosives and chlorinated compounds (TCE)

Reductive DARAMEND® Bioremediation





Site 6 - Preconstruction



Site 6 – After First Lift





Site 6 – First Lift (red water)



Site 6 – Remediation Status

- ✦ Treatment of soil in 1,000 yd lifts began in 1999
- ✦ Lift 4 was loaded in May 2003 and bioremediation was completed September 2003*
- ✦ Lift 5 loaded completed October 2003
- ✦ Consolidation and *in situ* treatment of 3,000 yd at Site 6 in an impoundment area

*Approximately 50 tons of original 40,000 ppm explosive-contaminated soil will be reapplied to biocell along with Lift 4 soil.



Site 6 – June 2003



Site 6 – In situ Pretreatment

- ✦ Soil consolidation and *in situ* treatment at Site 6 Impoundment Area to:
 - ▣ Manage contaminated soil in a smaller area
 - ▣ Establish total soil volumes to be treated
 - ▣ Allow for a more uniform mixing of soil
 - ▣ Start bioremediation prior to *ex situ* treatment at the biocell



Site 6 – Pretreatment Process

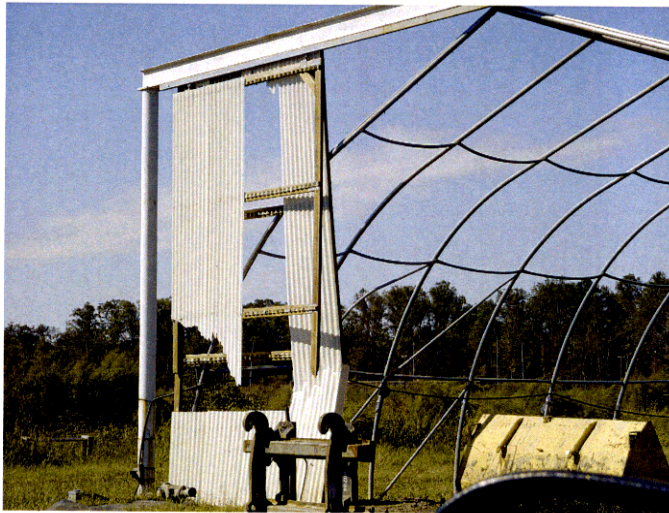


Site 6 - Biocell Hurricane Damage





Site 6 - Biocell Hurricane Damage



Site 6 – Planned

- ✦ Repair damaged biocell
- ✦ Treatment of fifth lift of soil in biocell
- ✦ Treatment of 3,000 yd³ in pretreatment cell
- ✦ Excavation/treatment of approximately 1,000 yd³ soil
- ✦ Site Closure



Cheatham Annex Site 1 Landfill Project Update

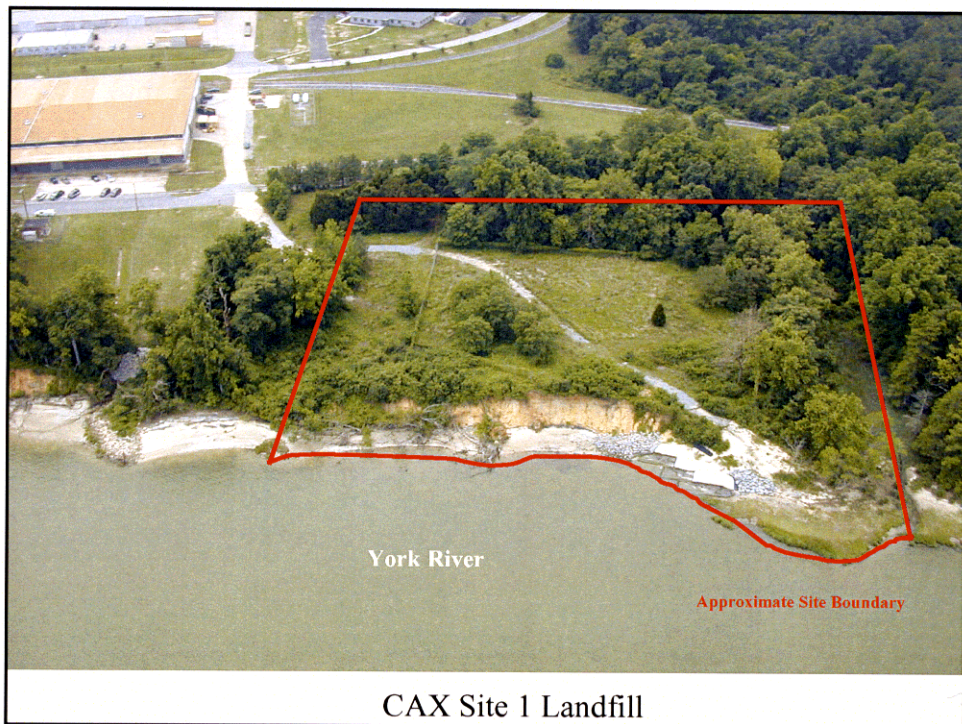
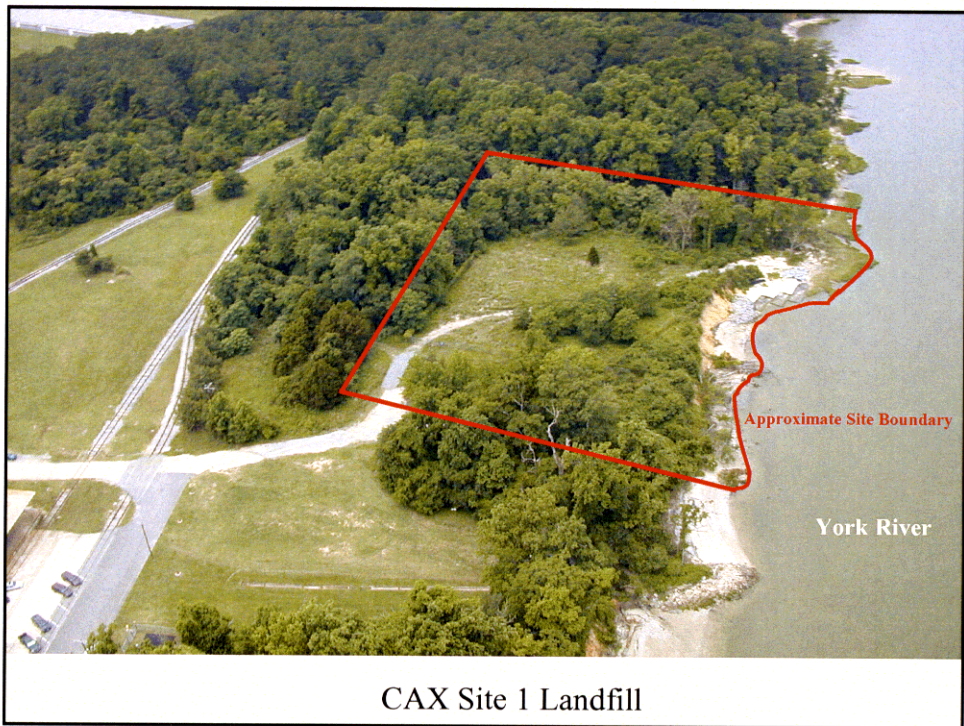
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Mr. Don Joiner, P.E., Presenter
Baker Environmental, Inc., Yorktown Activity Manager



Presentation Overview

- Review project history
- Review progress of removal action and shoreline restoration
- Update project schedule





Site Background

- Used from 1942 to 1951 for disposal of incinerator ash and other wastes
- Used from 1951 to 1981 as a general landfill
- Closed in 1981, graded, and a 2-foot soil cover was installed

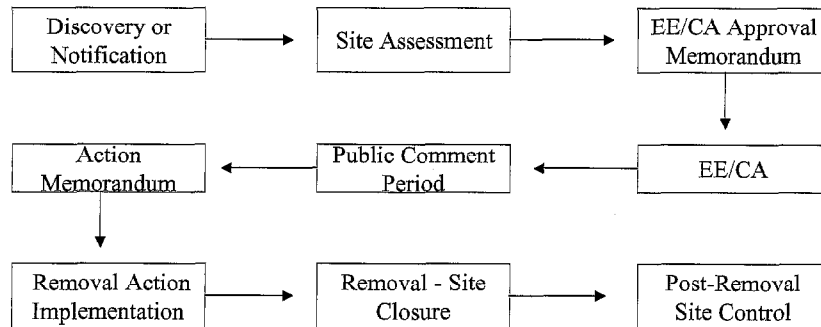


Remedial Investigation Results

- Landfill material includes carcinogenic PAHs, PCBs, antimony, arsenic, copper, iron, lead
- Soils: data suggests no significant impacts – low levels of PAHs may be naturally-occurring
- Groundwater: no organic contaminants; arsenic and iron detected in downgradient samples
- Sediments: limited PAH and metals contamination



CERCLA Process for CAX Site 1



CAX Site 1 Schedule

Awarded Contract for Removal Action	30 March 2003
Draft Final EE/CA	2 April 2003
Public Notice	6 April 2003
Final EE/CA	3 July 2003
Started Removal Action	July 2003



Early August 2003



Early August 2003





Early August 2003



25 September 2003





25 September 2003



Planned Shoreline Restoration





25 September 2003

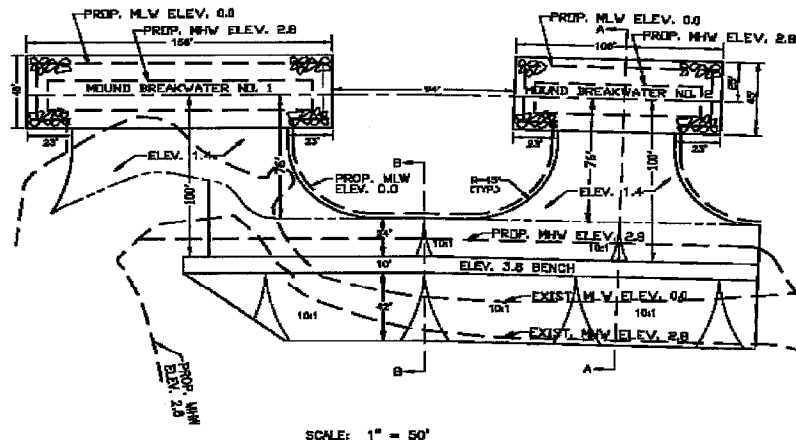


25 September 2003

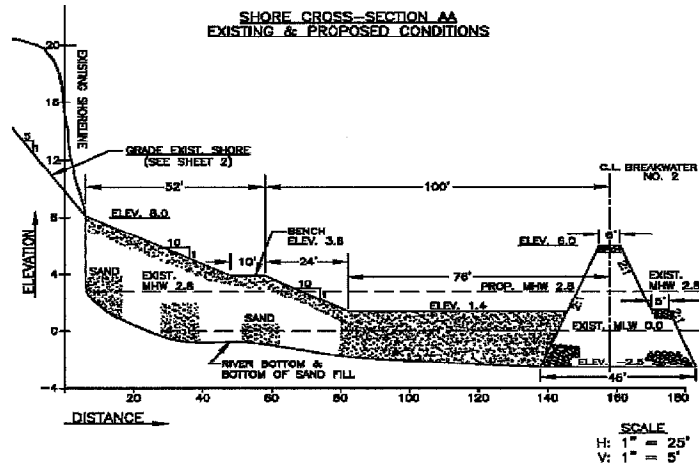




Planned Shoreline Restoration



Planned Shoreline Restoration





14 November 2003

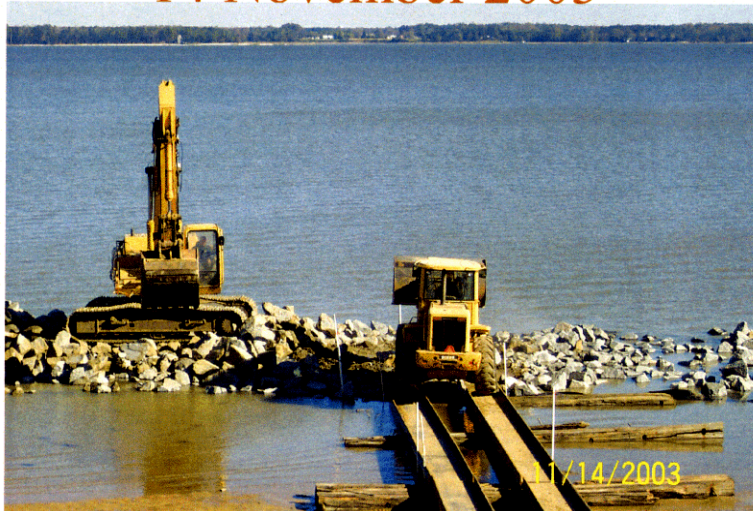


14 November 2003





14 November 2003



Remaining Tasks to Complete Project

- ✦ Complete shoreline restoration – November 2003
- ✦ Complete site restoration – December 2003
- ✦ Complete wetland restoration – Spring 2004



Questions or Comments ?

